CLASSIFICATION

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INFORMATION REPORT

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COUNTRY SUBJECT PLACE DATE OF INFO.

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20 October 1952

DATE DISTR.

Analysis of Coal used in the Harbke Power Plant

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East Germany

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SUPPLEMENT TO REPORT NO.

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THIS DOCUMENT CONTAINS REPORMATION AFFECTION THE MATURAL DEPRIMES OF THE CHITED STATES CITEM THE MEASING OF THE ECPICAGE ACT SO U. G. C., 21 AND ST. AS ALERBOID. ITS TRANSMISSISTO OR THE REVEATION OF THE CONTENTS IN CANCELS TO AN ULASTROCKED PERSON IS PRO-HIBITED BY LAW. LEGRODICHOLO OF THE FORM IS PROFIBERED.

* Documentary

THIS IS UNEVALUATED INFORMATION

The following is a table showing the properties of the coal used in the Harbkelpower plant. The table was prepared in 1948 by the Ingenieur-Technisches Ronstoffbürg in Leipzig, but the data is valid for 1952.

Boiler (Steam) Coal

45.88 % Water 7.49 % Ash 33.09 % Carbon C 2.64 % Hydrogen H2 Sulfur S 1.64 % Nitrogen N2 0.33 % 8.93 % Oxygen 02

Net calorific nower 2796 thermal units Calorific value, pure coal 6583 thermal units 1.243 Specific weight

Sieve Analysis

17.2 % 40 mm, sieve 7.0 % 30 mm. 4.0 % 25 mm. 6.5 % 77 20 mm. 8.0 % 15 nm. 10 mm. 13.4 % 18.0 % 4. mm. 4.7 % 3 mm. 4.7 % 2 mm. 16.5 % Farsage (Durchgang)

Fixed Carbon 38.42 % Volatile Substance 61.58 %

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25X1 Ash Analysis SiC ₂ 16.41 % Fe2 ^{O3} 16.30 % Al2O3 15.59 % CaO 20.77 % MgO 0.40 % SO3 Na2O 0.25 %	Approved For Release 2006/02	ec rar	72 00-10711011-1 <u>0001000</u>	<i></i>						
Ash Analysis SiO ₂ 16.41 % Fe2O ₃ 16.30 % Al2O ₃ 15.59 % CaO 20.77 % MgO 0.40 % SO ₃ 29.90 %	, the	··· 2 · 42								
S10 ₂ 16.41 % Fe2 ⁰ 3 16.30 % A1203 15.50 % Ca0 20.77 % Mg0 0.40 % S03 29.90 %				25X1						
S10 ₂ 16.41 % Fe2 ⁰ 3 16.30 % A1203 15.50 % Ca0 20.77 % Mg0 0.40 % S03 29.90 %										
Fe ₂ O ₃ 16.30 % A12O ₃ 15.50 % CaO 20.77 % MgO 0.40 % SO ₃ 29.90 %	 Ash Analysis									
Fe2 ⁰ 3 16.30 % A1203 15.50 % Ca0 20.77 % MgO 0.40 % S ⁰ 3 29.90 %	SiO ₂	16.41 %								
A1203 15.50 % CaO 20.77 % MgO 0.40 % SO3 29.90 %	~									
CaO 20,77 % MgO 0.40 % SO3 29.90 %	A1203	,								
303 29.90 %										
W 10				# ex-2						
Na ₂ O 0.25 %										
	MaSO	0.25 %	• • •							
Beginning of Sintering 10700 C Beginning of Fusing	Beginning of Fusing	1070°C								
(Erweichung) 2150C	(Erweichung)	21500								
Fusion (Schmelzen) 126500	Fusion (Schmelzen)	126500								

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